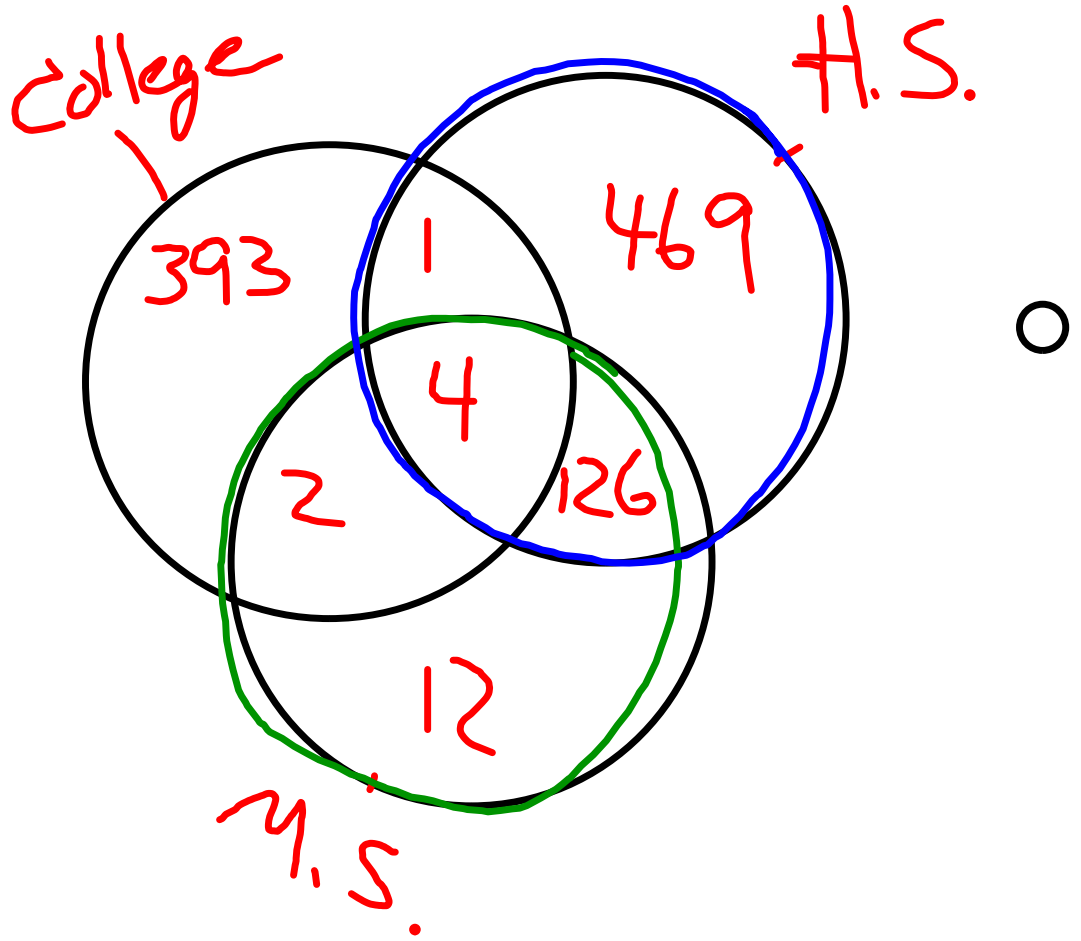
Pg. 5 48-49

$-3xy = 45$

$-3(-3)(-5) =$

$+ \quad -$


college
H.S.
393
1
469
4
2
126
12
M.S.

Kristen sells major appliances. She is paid a monthly salary of $1,600, plus a commission of 5% on the first $2,000 of monthly sales and 10% on the rest of he monthly sales over $2,000.

5% of $2,000

.05 • $2,000

She gets $1,600 no matter what

What is Kristen's income for a month having sales of $5,938.50?

$$\frac{5}{100} = \frac{x}{\$2,000} \rightarrow \text{commission}$$

5% out of 100

$x = \$100$ commission for the $2,000 of sales

$5938.50
$-2,000.00$
$3,938.50

$$\frac{10}{100} = \frac{x}{\$3,938.50} \rightarrow \text{commission}$$

$x = \$393.85$

$1600
$100
+ $393.85

monthly salary $2093.85

Explain

I set up a proportion to find her commission of 5% on $2,000. It was $100. I subtracted $2000.00 from her total monthly sales. of $5938.50. to find the amount of sales over $2,000. I then made another proportion to find 10% of the amount over $2,000 which is $3938.50. This amount is $393.85. To find her monthly salary I added $1600, $100, and $393.85 which is $2093.85, her mathy salary.